Claim Listing:

1-9. (Cancelled)

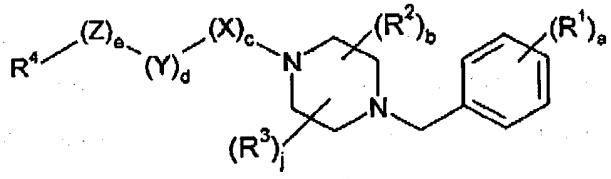
10. (Currently Amended) A pharmaceutical composition for treating or preventing a disorder or condition selected from autoimmune diseases, rheumatoid arthritis, type I diabetes (recent onset), lupus, inflammatory bowel disease, optic neuritis, psoriasis, multiple sclerosis, polymyalgia rheumatica, uveitis, and vasculitis, acute and chronic inflammatory conditions osteoarthritis, adult Respiratory Distress Syndrome, Respiratory Distress Syndrome of infancy, ischemia reperfusion injury, glomerulonephritis, and chronic obstructive pulmonary disease (COPD) allergic conditions, asthma and atopic dermatitis, inflammation associated with infection, viral inflammation, influenza, hepatitis and Guillian-Barre, chronic bronchitis, chronic or acute tissue, cell, and solid organ transplant rejection, xeno-transplantation, atherosclerosis, restenosis, HIV infectivity (co-receptor usage), and granulomatous diseases, sarcoidosis, leprosy and tuberculosis, and sequelae associated with cancers, multiple myelomax; limiting the production of cytokines and/or TNF at inflammatory sites, as a consequence of decreasing cell infiltration; for treating diseases and/or congestive heart failure, linked to TNF and IL-1 and for treating pulmonary emphysema or dyspnea associated therewith, emphysema; HIV-1, HIV-2, HIV-3; cytomegalovirus (CMV), adenoviruses, Herpes viruses (*Herpes zoster* and *Herpes simplex*), for treating sequelae associated with infection where such infection induces production of detrimental inflammatory cytokines and/or TNF, fungal meningitis, joint tissue damage, hyperplasia, pannus formation and bone resorption, psoriatic arthritis, hepatic failure, bacterial meningitis, Kawasaki syndrome, myocardial infarction, acute liver failure, lyme disease, septic shock, cancer, trauma, and malaria, in a mammal, comprising an amount of a compound according to claim 20 ~~or 21~~, or a pharmaceutically acceptable salt thereof, that is effective in treating or preventing such disorder or condition and a pharmaceutically acceptable carrier.

11. (Currently Amended) A pharmaceutical composition for treating or preventing a disorder or condition that can be treated or prevented by inhibiting chemokine binding to the receptor CCR1

in a mammal, comprising an amount of a compound according to claim 20 ~~or 21~~, or a pharmaceutically acceptable salt thereof, effective in treating or preventing such disorder or condition and a pharmaceutically acceptable carrier.

12-19. (Cancelled)

20. (Currently Amended) A compound of the formula



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or the pharmaceutically acceptable salt thereof; wherein

R^1 is independently selected from hydrogen, halo, cyano, nitro, trifluoromethyl, trifluoromethoxy, $(C_1$-$C_6)$alkyl, hydroxy or $(C_1$-$C_6)$alkylcarbonyloxy;

R^2 and R^3 are each independently selected from $(C_1$-$C_6)$alkyl, $(C_3$-$C_8)$cycloalkyl, amino$(C_1$-$C_6)$alkyl, amino$(C_3$-$C_8)$cycloalkyl, $(C_1$-$C_6)$alkylamino$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkylamino$(C_3$-$C_8)$cycloalkyl, hydroxy$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkoxycarbonylamino$(C_1$-$C_6)$alkyl, ureido$(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkyureido$(C_1$-$C_6)$alkyl, $(C_2$-$C_9)$heteroaryl$(C_1$-$C_6)$alkyl or $(C_2$-$C_9)$heterocycloalkyl$(C_1$-$C_6)$alkyl;

R^4 is $(R^5)_f(R^6)_g(C_6$-$C_{10})$aryl ~~or $(R^5)_f(R^7)_h(C_2$-$C_9)$heteroaryl~~ wherein f, g and h are independently 1 or 2;

R^5 is $(C_2$-$C_9)$heterocycloalkylcarbonyl, $(C_2$-$C_9)$heteroarylcarbonyl, $(C_2$-$C_9)$heteroaryl$(C_1$-$C_6)$alkylaminocarbonyl, $(C_2$-$C_9)$heterocycloalkyl$(C_1$-$C_6)$alkylaminocarbonyl, $(C_1$-$C_6)$alkylsulfonylamino$(C_1$-$C_6)$alkylaminocarbonyl, ureido$(C_1$-$C_6)$alkylaminocarbonyl, $(C_1$-$C_6)$alkylureido$(C_1$-$C_6)$alkylaminocarbonyl, $((C_1$-$C_6)$alkyl$)_2$ureido$(C_1$-$C_6)$alkylaminocarbonyl, aminosulfonyl$(C_1$-$C_6)$alkylaminocarbonyl, $(C_1$-$C_6)$alkylaminosulfonyl$(C_1$-$C_6)$alkylaminocarbonyl, $(C_1$-$C_6)$alkylsulfonylamino$(C_1$-$C_6)$alkylcarbonylamino, cyanoguanidino$(C_1$-$C_6)$alkylcarbonylamino, $(C_1$-$C_6)$alkylcyanoguanidino$(C_1$-$C_6)$alkylcarbonylamino, $((C_1$-$C_6)$alkyl$)_2$cyanoguanidino$(C_1$-$C_6)$alkylcarbonylamino, aminocarbonyl$(C_1$-$C_6)$alkylcarbonylamino, $(C_2$-$C_9)$heteroaryl$(C_1$-

C_6)alkylcarbonylamino, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylcarbonylamino, aminosulfonyl(C_1-C_6)alkylcarbonylamino, amino(C_1-C_6)alkylureido, (C_1-C_6)alkylamino(C_1-C_6)alkylureido, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylureido, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylureido, (C_2-C_9)heteroaryl(C_1-C_6)alkylureido, aminosulfonyl(C_1-C_6)alkylureido, aminocarbonyl(C_1-C_6)alkylureido, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylureido, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylureido, acetylamino(C_1-C_6)alkylureido, (acetyl)((C_1-C_6)alkyl)amino(C_1- C_6)alkylureido, amino(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylsulfonylamino, acetylamino(C_1-C_6)alkylsulfonylamino, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylsulfonylamino, ureido(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylureido(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylsulfonylamino, cyanoguanidino(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylsulfonylamino, aminocarbonyl(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylsulfonylamino, aminosulfonylamino, (C_1-C_6)alkylaminosulfonylamino, ((C_1-C_6)alkyl)$_2$aminosulfonylamino, aminocarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylsulfonylamino, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylsulfonylamino, cyanoguanidino, (C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$cyanoguanidino, (C_2-C_9)heterocycloalkylcyanoguanidino, (C_2-C_9)heteroarylcyanoguanidino, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylcyanoguanidino, (C_2-C_9)heteroaryl(C_1-C_6)alkylcyanoguanidino, amino(C_1-C_6)alkylcyanoguanidino, (C_1-C_6)alkylamino(C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylcyanoguanidino, aminocarbonyl(C_1-C_6)alkylcyanoguanidino, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylcyanoguanidino, aminocarbonyl(C_1-C_6)alkylamino, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylamino, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino, aminosulfonyl(C_1-C_6)alkylamino, (C_2-C_9)heteroaryl(C_1-C_6)alkylamino, acetylamino(C_1-C_6)alkylamino, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylamino, cyano(C_1-C_6)alkylaminoalkyl, aminocarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino(C_1-

C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, aminocarbonyloxy(C_1-C_6)alkylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, aminosulfonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, cyano(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, ~~wherein R^5 is~~ amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkylaminocarbonyl amino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6) alkylcarbonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonyl amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonyl amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylaminocarbonyl amino(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, ~~or~~ cyanoguanidino(C_1-C_6)alkylureido(C_1-C_6)alkyl, amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-

C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$(cyanoguanidino)(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminosulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylaminosulfonylamino(C_1-C_6)alkyl, ((C_1- C_6)alkyl)$_2$aminosulfonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkyl, (C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ~~wherein R^5 is~~ (C_2-C_9)heterocycloalkylsulfonyl, amino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylamino(C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroarylaminosulfonyl, ureido(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylureido(C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminosulfonyl, aminocarbonyl(C_1-C_6)alkylaminosulfonyl, cyanoguanidino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkylaminosulfonyl, halo(C_1-C_6)alkylaminocarbonyl, hydroxy(C_1-C_6)alkylureido, halo(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, hydroxy(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, halo(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminosulfonyl, (C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$aminosulfonyl, hydroxy(C_1-C_6)alkylaminosulfonyl, or (C_1-C_6)alkoxy(C_1-C_6)alkylaminosulfonyl;

R^6 and R^7 are each independently halo, halo(C_1-C_6)alkyl, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, trifluoromethyl, trifluoromethoxy, hydroxy, aminocarbonyl, cyano, ureido, (C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino or glycinamino;

a is 1, 2, 3, 4 or 5;

b is 0, 1, 2, 3 or 4;

c is 1;

d is 1;

e is 1;

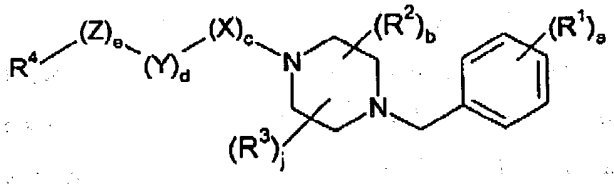
j is 1, 2, 3, or 4;

Y is CH_2;

X is C(O); and

Z is oxygen.

21. (Withdrawn) A compound of the formula



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or the pharmaceutically acceptable salt thereof; wherein

R^1 is hydrogen, halo, cyano, nitro, trifluoromethyl, trifluoromethoxy, (C_1-C_6)alkyl, hydroxy or (C_1-C_6)alkylcarbonyloxy;

R^2 and R^3 are each independently selected from (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, amino(C_1-C_6)alkyl, amino(C_3-C_8)cycloalkyl, (C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_3-C_8)cycloalkyl, hydroxy(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkyl, (C_1-C_6)alkyureido(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkyl or (C_2-C_9)heterocycloalkyl(C_1-C_6)alkyl;

R^4 is $(R^5)_f(R^6)_g$(C_6-C_{10})aryl or $(R^5)_f(R^7)_h$(C_2-C_9)heteroaryl wherein f, g and h are independently 1 or 2;

R^5 is (C_2-C_9)heterocycloalkylcarbonyl, (C_2-C_9)heteroarylcarbonyl, (C_2-C_9)heteroaryl(C_1-

C_6)alkylaminocarbonyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylaminocarbonyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminocarbonyl, ureido(C_1-C_6)alkylaminocarbonyl, (C_1-C_6)alkylureido(C_1-C_6)alkylaminocarbonyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylaminocarbonyl, aminosulfonyl(C_1-C_6)alkylaminocarbonyl, (C_1-C_6)alkylaminosulfonyl(C_1-C_6)alkylaminocarbonyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylcarbonylamino, cyanoguanidino(C_1-C_6)alkylcarbonylamino, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylcarbonylamino, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylcarbonylamino, aminocarbonyl(C_1-C_6)alkylcarbonylamino, (C_2-C_9)heteroaryl(C_1-C_6)alkylcarbonylamino, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylcarbonylamino, aminosulfonyl(C_1-C_6)alkylcarbonylamino, amino(C_1-C_6)alkylureido, (C_1-C_6)alkylamino(C_1-C_6)alkylureido, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylureido, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylureido, (C_2-C_9)heteroaryl(C_1-C_6)alkylureido, aminosulfonyl(C_1-C_6)alkylureido, aminocarbonyl(C_1-C_6)alkylureido, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylureido, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylureido, acetylamino(C_1-C_6)alkylureido, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylureido, amino(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylsulfonylamino, acetylamino(C_1-C_6)alkylsulfonylamino, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylsulfonylamino, ureido(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylureido(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylsulfonylamino, cyanoguanidino(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylsulfonylamino, aminocarbonyl(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylsulfonylamino, aminosulfonylamino, (C_1-C_6)alkylaminosulfonylamino, ((C_1-C_6)alkyl)$_2$aminosulfonylamino, aminocarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylsulfonylamino, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylsulfonylamino, cyanoguanidino, (C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$cyanoguanidino, (C_2-C_9)heterocycloalkylcyanoguanidino, (C_2-C_9)heteroarylcyanoguanidino, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylcyanoguanidino, (C_2-C_9)heteroaryl(C_1-C_6)alkylcyanoguanidino, amino(C_1-C_6)alkylcyanoguanidino, (C_1-C_6)alkylamino(C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylcyanoguanidino, aminocarbonyl(C_1-C_6)alkylcyanoguanidino, (C_1-

C_6)alkylaminocarbonyl(C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylcyanoguanidino, aminocarbonyl(C_1-C_6)alkylamino, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylamino, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino, aminosulfonyl(C_1-C_6)alkylamino, (C_2-C_9)heteroaryl(C_1-C_6)alkylamino, acetylamino(C_1-C_6)alkylamino, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylamino, cyano(C_1-C_6)alkylaminoalkyl, aminocarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1- C_6)alkylureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, aminocarbonyloxy(C_1-C_6)alkylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, aminosulfonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, cyano(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, wherein R^5 is amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkylaminocarbonyl amino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6) alkylcarbonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonyl amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonyl amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylaminocarbony lamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, ((C_1-

C_6)alkyl)$_2$ureido(C_1-C_6)alkylureido(C_1-C_6)alkyl or cyanoguanidino(C_1-C_6)alkylureido(C_1-C_6)alkyl, amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$(cyanoguanidino)(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_2- C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminosulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylaminosulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$aminosulfonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkyl, (C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, wherein R^5 is (C_2-C_9)heterocycloalkylsulfonyl, amino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylamino(C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroarylaminosulfonyl, ureido(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylureido(C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminosulfonyl, aminocarbonyl(C_1-

C_6)alkylaminosulfonyl, cyanoguanidino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkylaminosulfonyl, halo(C_1-C_6)alkylaminocarbonyl, hydroxy(C_1-C_6)alkylureido, halo(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, hydroxy(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, halo(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminosulfonyl, (C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$aminosulfonyl, hydroxy(C_1-C_6)alkylaminosulfonyl, or (C_1-C_6)alkoxy(C_1-C_6)alkylaminosulfonyl;

R^6 and R^7 are each independently halo, halo(C_1-C_6)alkyl, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, trifluoromethyl, trifluoromethoxy, hydroxy, aminocarbonyl, cyano, ureido, (C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino or glycinamino;

a is 1, 2, 3, 4 or 5;

b is 0, 1, 2, 3 or 4;

c is 1;

d is 1;

e is 1;

j is 1, 2, 3, or 4;

Y is CH_2;

X is C(O); and

Z is NR^9 wherein R^9 is hydrogen or (C_1-C_6)alkyl.

22. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is (C_2-C_9)heterocycloalkylcarbonyl, (C_2-C_9)heteroarylcarbonyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminocarbonyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylaminocarbonyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminocarbonyl, ureido(C_1-C_6)alkylaminocarbonyl, (C_1-C_6)alkylureido(C_1-C_6)alkylaminocarbonyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylaminocarbonyl, aminosulfonyl(C_1-C_6)alkylaminocarbonyl or (C_1-C_6)alkylaminosulfonyl(C_1-C_6)alkylaminocarbonyl.

23. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylcarbonylamino, cyanoguanidino(C_1-C_6)alkylcarbonylamino, (C_1-

C_6)alkylcyanoguanidino(C_1-C_6)alkylcarbonylamino, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylcarbonylamino, aminocarbonyl(C_1-C_6)alkylcarbonylamino, (C_2-C_9)heteroaryl(C_1-C_6)alkylcarbonylamino, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylcarbonylamino, or aminosulfonyl(C_1-C_6)alkylcarbonylamino.

24. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is amino(C_1-C_6)alkylureido, (C_1-C_6)alkylamino(C_1-C_6)alkylureido, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylureido, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylureido, (C_2-C_9)heteroaryl(C_1-C_6)alkylureido, aminosulfonyl(C_1-C_6)alkylureido, aminocarbonyl(C_1-C_6)alkylureido, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylureido, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylureido, acetylamino(C_1-C_6)alkylureido, or (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylureido.

25. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is amino(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylsulfonylamino, acetylamino(C_1-C_6)alkylsulfonylamino, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylsulfonylamino, ureido(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylureido(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylsulfonylamino, cyanoguanidino(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylsulfonylamino, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylsulfonylamino, aminocarbonyl(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylsulfonylamino, aminosulfonylamino, (C_1-C_6)alkylaminosulfonylamino, ((C_1-C_6)alkyl)$_2$aminosulfonylamino, aminocarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylsulfonylamino or (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylsulfonylamino.

26. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is cyanoguanidino, (C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$cyanoguanidino, (C_2-C_9)heterocycloalkylcyanoguanidino, (C_2-C_9)heteroarylcyanoguanidino, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylcyanoguanidino, (C_2-C_9)heteroaryl(C_1-C_6)alkylcyanoguanidino, amino(C_1-C_6)alkylcyanoguanidino, (C_1-

C_6)alkylamino(C_1-C_6)alkylcyanoguanidino, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylcyanoguanidino, aminocarbonyl(C_1-C_6)alkylcyanoguanidino, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylcyanoguanidino or ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylcyanoguanidino~~, wherein R^5 is~~ aminocarbonyl(C_1-C_6)alkylamino, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylamino, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino, aminosulfonyl(C_1-C_6)alkylamino, (C_2-C_9)heteroaryl(C_1-C_6)alkylamino, acetylamino(C_1-C_6)alkylamino or (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylamino.

27. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is cyano(C_1-C_6)alkylaminoalkyl or aminocarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl.

28. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is acetylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylcyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$cyanoguanidino(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylamino(C_1-C_6)alkyl or aminocarbonyloxy(C_1-C_6)alkylamino(C_1-C_6)alkyl.

29. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is acetylamino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, aminosulfonyl(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl or cyano(C_1-C_6)alkylcarbonylamino(C_1-C_6)alkyl.

30. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkylaminocarbonyl amino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6) alkylcarbonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonyl amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonyl amino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkylaminocarbonyl amino(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylureido(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylureido(C_1-C_6)alkyl or cyanoguanidino(C_1-C_6)alkylureido(C_1-C_6)alkyl.

31. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, acetylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (acetyl)((C_1-C_6)alkyl)amino(C_1- C_6)alkylsulfonylamino(C_1-C_6)alkyl, ureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, cyanoguanidino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$(cyanoguanidino)(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminosulfonylamino(C_1-C_6)alkyl, (C_1-C_6)alkylaminosulfonylamino(C_1-C_6)alkyl or ((C_1-C_6)alkyl)$_2$aminosulfonylamino(C_1-C_6)alkyl.

32. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is cyanoguanidino(C_1-C_6)alkyl, (C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heterocycloalkyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_2-C_9)heteroaryl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylamino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl, (C_1-C_6)alkylaminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl or ((C_1-C_6)alkyl)$_2$aminocarbonyl(C_1-C_6)alkyl(cyanoguanidino)(C_1-C_6)alkyl.

33. (Currently Amended) The compound of claim 20 ~~or 21~~ wherein R^5 is (C_2-C_9)heterocycloalkylsulfonyl, amino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylamino(C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$amino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroarylaminosulfonyl, ureido(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylureido(C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$ureido(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkylsulfonylamino(C_1-C_6)alkylaminosulfonyl, (C_1-C_6)alkoxycarbonylamino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkyloxycarbonylamino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryloxycarbonylamino(C_1-C_6)alkylaminosulfonyl, aminocarbonyl(C_1-C_6)alkylaminosulfonyl, cyanoguanidino(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heteroaryl(C_1-C_6)alkylaminosulfonyl, (C_2-C_9)heterocycloalkylaminosulfonyl, ~~Other preferred compounds of formula I include those wherein R^5 is~~ halo(C_1-C_6)alkylaminocarbonyl, hydroxy(C_1-C_6)alkylureido, halo(C_1-C_6)alkylsulfonylamino, (C_1-C_6)alkoxycarbonyl(C_1-C_6)alkylamino(C_1-C_6)alkyl, hydroxy(C_1-C_6)alkylaminocarbonylamino(C_1-C_6)alkyl, halo(C_1-C_6)alkylsulfonylamino(C_1-C_6)alkyl, aminosulfonyl, (C_1-C_6)alkylaminosulfonyl, ((C_1-C_6)alkyl)$_2$aminosulfonyl, hydroxy(C_1-C_6)alkylaminosulfonyl, ~~and~~ or (C_1-C_6)alkoxy(C_1-C_6)alkylaminosulfonyl.